



ABRACON

Innovation For Tomorrow's Designs®

RF & Antenna Catalog



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Why Abracon?

As a leader in passive components, Abracon offers a broad selection of RF, antenna, timing, inductor, and connectivity components. Whether designing for transportation, infrastructure, industrial, consumer products, medical, or aerospace and defense applications, customers need products that transform technology and enable them to move quickly, and Abracon is by their side. Our global engineering teams focus on developing the latest technology and supporting clients with custom designs. From electric charging stations to 5G infrastructure, and everything in between, the Abracon team empowers design engineers to create innovative products that drive next-generation concepts.



RF & Antennas



Chip Antennas
Improve RF range, sensitivity compared to PCB antennas



Patch Antennas
Best sensitivity vs size compromise



External Antennas
Best sensitivity and range performance



Niche Antennas
ProAnt Patented PCB Integrated Antennas



Flexible Antennas
Low profile, multi-band, easy installation



RFID
Antennas and fully integrated tags



OnBoard Stamped Metal Antennas
Support the Planar Inverted F Antenna (PIFA) Technology



Whip Antennas
External Antennas



Filters
Small & Low profile, Low insertion loss, excellent selectivity



Frequency Control & Timing Devices



Quartz Crystals (XTAL)
MHz or kHz, SMD or through-hole



Real Time Clocks (RTC)
Lowest power, highly integrated & accurate



Quartz Oscillators (XO)
MHz or 32.768kHz, SMD or through-hole



Precision Quartz (XO/VCXO/TCXO/OCXO)
Accurate temp compensation, low jitter/noise



MEMS Oscillators
General purpose or high performance



Inductors & Connectivity



Low Profile Shielded Inductors
Medium to high power, high temperature



Drum Core Inductors
Ideal for high-power applications



High Power Toroid
Inherent immunity to EMI, high temperature



Chip Inductors
Low profile and compact, saves space with high current carrying capability



RJ45
With integrated magnetics
PoE, 10G to 100Mbps, SMD/PIH

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About Abracon

Abracon is an industry leader in passive components, providing frequency control & timing devices, RF & antenna products, and inductor & connectivity solutions. With service and quality at the company's core, Abracon enables innovative IoT solutions. Abracon powers the AEL Crystals, Ecliptek, Fox, ILSI, MMD, Oscilent and ProAnt brands, delivering the latest technical design support and global supply chain flexibility to solve customers' unique challenges.

KEY MARKET SEGMENTS



Aerospace
& Defense



Communication



Consumer
Electronics



Industrial



Medical



Transportation

Ultra-Compact Wi-Fi/BT External Antenna

PRO-EX-296 | External whip antenna

FEATURES

- Ultra-Compact
- High Reliability / Sensitivity
- Easy to install
- RoHS Compliant
- Customizable Cable and connector options



Abracon has a wide range of high-performance antenna and filter solutions for customers' wireless connectivity requirements or wireless RF Front End design. We offer innovative, high-performing solutions for 4G LTE/5G cellular, GNSS, Wi-Fi, Bluetooth, LPWA, UWB, ISM, RFID, and SATCOM applications. Our leading antennas are available for any frequency, protocol, or combination of many frequency bands.

Low-Profile 2.4/5.5GHz Wi-Fi Chip Antenna

ACAR0301-SW2 | Internal chip antenna

FEATURES

- Dual band Wi-Fi 2.4 GHz/5.5 GHz
- Low profile
- Gain of 1.0/2.5 dBi
- Omnidirectional pattern
- Low VSWR of 2.0



External MIMO 2xLTE + Wi-Fi + GNSS Combo Antenna

AECW0801C09S | IP67 external antenna

FEATURES

- 4 cabled combo antenna
 - 2x MIMO 4G LTE
 - 1x Wi-Fi 2.4/5 GHz
 - 1x Active
- GNSS/GPS/GLONASS/BeiDou/QZSS
- Global 4G cellular band coverage including CAT M and NB-IoT
- IP67 rated
- Easy installation
- Fully customizable RF cable and connector options



OnBoard Stamped Metal Antennas



Abracon's OnBoard SMD antenna is a secure choice to get robust connectivity in your wireless application. By using these antennas customers receive the best out of their application.



Niche Antennas

The Niche antenna is a ProAnt patented technology. These antennas are available in various frequencies, are highly efficient, space-saving, and a very low-cost solution, making them a great option for high-volume projects.



CELLULAR 5G/4G/LTE ANTENNAS

Our high performing 5G antennas provide coverage for sub-6 GHz 5G NR and CBRS bands.

Cellular antennas operate across a broad range of frequencies between 700-960 MHz, 1710-2170 MHz and 3300-7125 MHz, catering to all 5G/4G/LTE/3G/2G applications. Abracon offers ceramic chip SMD antennas, flexible PCB antennas, and external antennas with different mounts, omnidirectional radiation patterns, and weather-resistant capability (IP67 rated) for easy integration in wireless communication devices. High-performing MIMO antennas with different mounting options are available for enhanced data rate and quality of service (QoS).

APPLICATIONS

- IoT
- Machine to Machine
- Telecommunications
- Networking
- Telematics Control Units
- Video and Surveillance
- Medical Devices
- Consumer Electronics
- Transport and Vehicles
- Vending Machines
- Fleet Monitoring
- Modems



PART NUMBER	ACR4006X	ACR3705LZ	ACAR3705-S698	ACAR4008-S698
TYPE	Chip	Chip	Chip	Chip
FREQUENCY (MHz)	600-960 1710-2690 3300-6000	700-960 1710-2170 2500-2700	700-960 1710-2170 2500-2700	700-960 1710-2170 2500-2700
GAIN (dBi)	1.26 4.42 3.59	-2.47 -1.13 -2.46	1.07 4.03 3.76	0.1 4.1 2.74
MOUNTING	Surface Mount	Surface Mount	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	40 x 6 x 5	37 x 5 x 5	37 x 5 x 5	40 x 8 x 3.2
KEY FEATURES	5G/CBRS, Compact, High-Gain, Ultra-wideband	AECQ200, Compact size	Compact size, High-gain	Compact size, High-gain

5G/4G/LTE ANTENNAS



PART NUMBER	PRO-EB-595	AFC8513U4G	AFAC240020-M698	AFAC5867-S698
TYPE	Niche	Flexible PCB	Flexible PCB	Flexible PCB
FREQUENCY (MHz)	3400-3800	698-4000	698-960 1710-2690	698-960 1710-2690
GAIN (dBi)	3.4	5	4.17 2.53	0.82 3.1
MOUNTING	PCB Trace	Adhesive Mount	Adhesive Mount	Adhesive Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	8 x 4	85.0 x 13.8 x 0.2	240 x 20 x 0.2	67.4 x 58.4 x 0.2
KEY FEATURES	Ultra-Compact, High-efficiency	5G/CBRS, Compact, Wideband, Ø1.13 mm, IPEX-1(F)	Low profile, 2xMIMO, 2xØ1.37mm, 2xIPEX-1(F)	Low profile, Compact size, Ø1.13mm, IPEX-1(F)

New



PART NUMBER	AFAC110020-S698	AEBC1101X-S	AEACAC198013-S5GMR	AEACAC198013-S698
TYPE	Flexible PCB	Whip - Tilt	Whip - Tilt	Whip - Tilt
FREQUENCY (MHz)	698-960 1710-2690	600-6000	698-960 1710-2690 3300-3800	698-960 1710-2655
GAIN (dBi)	3.04 2.53	3	3.04 2.47 0.62	4.6 3.2
MOUNTING	Adhesive Mount	Connector Mount	Connector Mount	Connector Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	110 x 20 x 0.2	115 x Ø19	198 x Ø13.0	198 x Ø13.0
KEY FEATURES	Low profile, Ø1.13mm, IPEX-1(F)	5G/CBRS, Easy to install, SMA(M)	High-gain, 5G/CBRS, SMA(M)	High-gain, SMA(M)

New

5G/4G/LTE ANTENNAS



PART NUMBER	AEACAD097015-S698	AEACAD460065-S698	AECB1102X	AEACCA115021-S698
TYPE	Whip - Straight	Whip - Straight	Blade	Blade
FREQUENCY (MHz)	700-2700	698-960 1710-2700	600-6000	698-960 1710-2655
GAIN (dBi)	5	5.37 4.74	2	2.6 1.61
MOUNTING	Magnetic Mount	Magnetic Mount	Adhesive Mount	Adhesive Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	97 x Ø15	460 x Ø65	115.6 x 21.7 x 5.8	115.6 x 21.7 x 5.8
KEY FEATURES	High-gain, RG-58, SMA(M)	High-gain, RG-58, SMA(M)	5G/CBRS, Wideband, Low Profile, LMR-100, SMA(M)	Low profile, RG-174, SMA(M)



PART NUMBER	AEACBA081014-M698	AEACBK081014-M698	AEACBK081014-S698	AECR1808X4
TYPE	Puck	Puck	Puck	Dome
FREQUENCY (MHz)	698-960 1710-2690	698-960 1710-2690	698-960 1710-2690	600-6000
GAIN (dBi)	3.0 1.96	2.87 2.9	3.11 2.57	4
MOUNTING	Adhesive Mount	Screw Mount	Screw Mount	Screw Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	Ø81.6 x 14.5	Ø81.6 x 14.5	Ø81.3 x 14.6	189 x 182 x 85
KEY FEATURES	2xMIMO, IP67 rated, 2xRG-174, 2xSMA(M)	2xMIMO, IP67 rated, 2xRG-174, 2xSMA(M)	IP67 rated, RG-174, SMA(M)	5G/CBRS, 4xMIMO, IP67 rated, 4xLMR-100, 4xSMA(M)

CELLULAR 2G/3G/GSM ANTENNAS

2G/3G/GSM cellular antennas operate across a broad range of frequencies between 824-960 MHz and 1710-2170 MHz. Abracon offers compact ceramic chip antennas, low-profile flexible PCB antennas, and external whip and puck antennas with different form factors and mounts for easy installation in a broad range of wireless data and industrial applications. These multi-band antennas support evolving LTE, 5G, and 4G cellular technologies in their operating bands.

APPLICATIONS

- IoT
- Machine to Machine
- Telecommunications
- Networking
- Telematics Control Units
- Video and Surveillance
- Medical Devices
- Consumer Electronics
- Broadband Cellular
- Transport Systems
- Fleet Monitoring
- MIMO Routers



PART NUMBER	ACAJ-109-T	ACAR3005-S824	PRO-EB-598
TYPE	Chip	Chip	Niche
FREQUENCY (MHZ)	824-960 1710-2170	824-960 1710-2170	791-960 1710-2170
GAIN (DBI)	2.4 6.4	0.77 3.12	5.1 4.9
MOUNTING	Surface Mount	Surface Mount	PCB Trace
POLARIZATION	Linear	Linear	Linear
PACKAGE SIZE (MM)	24 x 5.5 x 4.4	30 x 5 x 5	25 x 16
KEY FEATURES	Compact size, Multi-band	Multi-band	Very low cost, Compact, High-efficiency

New

2G/3G/GSM ANTENNAS



PART NUMBER	PRO-OB-572	PRO-IS-212	PRO-IS-573
TYPE	Stamped metal	Board	Board
FREQUENCY (MHZ)	791-960 1710-2170	868-960 1710-1990	791-960 1710-1990
GAIN (DBI)	2.2 2.3	2.9 1.9	4.1 2.8
MOUNTING	Surface Mount	Adhesive Mount	Adhesive Mount
POLARIZATION	Linear	Linear	Linear
PACKAGE SIZE (MM)	50 x 25 x 10	50.0 x 8.0 x 0.8	75.0 x 8.0 x 0.8
KEY FEATURES	Multi-band, Efficiency > 50%, 10 yrs Shelf life	Gain of 2.9 dBi, IPEX-1(F)	Gain of 4.1 dBi, Efficiency > 66%, IPEX-1(F)

New

New

New



PART NUMBER	PRO-IS-279	AFAG7020-S824	PRO-IS-577
TYPE	Flexible PCB	Flexible PCB	Flexible PCB
FREQUENCY (MHZ)	868-960 1710-1990	824-960 1710-2690	791-960 1710-2170
GAIN (DBI)	2.0 3.4	2.0 3.5	5.3 2.9
MOUNTING	Adhesive Mount	Adhesive Mount	Adhesive Mount
POLARIZATION	Linear	Linear	Linear
PACKAGE SIZE (MM)	58.0 x 8.5 x 0.2	70 x 20	93.0 x 10.0 x 0.13
KEY FEATURES	Low Profile, High-gain of 3.4 dBi, IPEX-1(F)	Low profile, Ø1.13mm, IPEX-1(F)	Low Profile, High-gain, Efficiency > 55%, IPEX-1(F)

New

New

2G/3G/GSM ANTENNAS



PART NUMBER	APAMS-119	APAMS-118	PRO-EX-251	PRO-EX-321
TYPE	Whip - Straight	Whip - Tilt	Whip - Straight	Whip - Tilt
FREQUENCY (MHz)	820-880 1710-1880	890-960 1710-1880	824-960 1710-2170	824-960 1710-2170
GAIN (dBi)	2.5	2 3	3	3
MOUNTING	Connector Mount	Connector Mount	Magnetic Mount	Connector Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	78 x Ø12.0	108.1 x Ø10.0	99 x Ø30.2	106 x Ø9.3
KEY FEATURES	Easy to install, High Reliability, SMA(M)	Easy to install, High Reliability, SMA(M)	High Reliability, Easy to install, SMA(M)	High Reliability, Gain of 3dBi, SMA(M)

New

New



PART NUMBER	APAMS-101	AEACCA115021-S850	APAMS-102	PRO-EX-349
TYPE	Blade	Blade	Blade	Blade
FREQUENCY (MHz)	820-960 1710-1990	824-960 1710-2170	820-960 1710-2170	824-960 1710-2170
GAIN (dBi)	1 2	2	1 3	3
MOUNTING	Adhesive Mount	Adhesive Mount	Adhesive Mount	Adhesive Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	115 x 22 x 7	115.6 x 21.7 x 5.8	138 x 21 x 6	141 x 14
KEY FEATURES	Compact Size, High Reliability, RG-174, FME(F)	Low profile, RG-174, SMA(M)	Easy to install, High Reliability, RG-174, SMA(M)	Low Profile, Easy to install, Gain of 3dBi, SMA(M)

New



WI-FI/BLE/BLUETOOTH/ZIGBEE/ISM ANTENNAS

Abracon offers a wide variety of ceramic chip antennas for Wi-Fi/BT applications, such as compact, High-gain, and dual-band antennas. Flexible PCB, external puck, and low-profile whip antennas ensure quality reception and transmission for Wi-Fi, Bluetooth, ZigBee, and ISM.

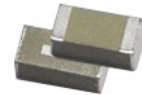
APPLICATIONS

- IoT
- Smart Home
- Portable Devices
- Machine to Machine
- UAV/Drone
- Set-Top Boxes
- Wearables
- Connected Vehicles
- Network Devices
- Routers
- Smart Cities
- VR/AR

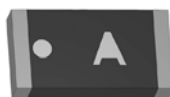


PART NUMBER	ACAG0201-2450-T	ACAG0301-2450-T	AMCA31-2R450G-S1F-T3
TYPE	Chip	Chip	Chip
FREQUENCY (MHZ)	2450	2400-2500	2450
GAIN (DBI)	2.7	5.19	0.5
MOUNTING	Surface Mount	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear	Linear
PACKAGE SIZE (MM)	2 x 1.25 x 0.6	3.2 x 1.6 x 1.2	3.2 x 1.6 x 1.2
KEY FEATURES	Miniature size, High-gain	Compact size, High-gain	Compact size

WI-FI/BLE/ZIGBEE/ISM ANTENNAS



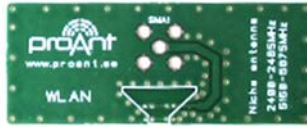
PART NUMBER	AMCA72-2R470G-S1F-T	ACAG0801-2450-T	ACAG0301-5500-T
TYPE	Chip	Chip	Chip
FREQUENCY (MHZ)	2470	2450	5500
GAIN (DBI)	2.5	7.29	4.5
MOUNTING	Surface Mount	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear	Linear
PACKAGE SIZE (MM)	7 x 2 x 1	8 x 1 x 1	3.2 x 1.6 x 1.2
KEY FEATURES		High-gain	Compact size, High-gain



PART NUMBER	ACAR0301-SW2	ACAG0301-24505500-T	ACR1004A
TYPE	Chip	Chip	Chip
FREQUENCY (MHZ)	2400-2500 5150-5825	2450 5500	2400-2500 5150-7125
GAIN (DBI)	1.0 2.5	2.23 4.05	3.54 4.02
MOUNTING	Surface Mount	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear	Linear
PACKAGE SIZE (MM)	3.05 x 1.6 x 0.55	3.2 x 1.6 x 1.2	3.2 x 1.6 x 1.2
KEY FEATURES	Low profile, Dual-band	High-gain, Dual-band	Wi-Fi6, LTCC Chip Antenna, High Peak Gain of 4 dBi, Dual-band

New

WI-FI/BLE/ZIGBEE/ISM ANTENNAS



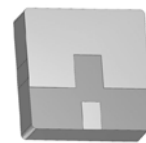
PART NUMBER	PRO-EB-592	PRO-EB-594	PRO-OB-607	PRO-OB-440
TYPE	Niche	Niche	Stamped metal	Stamped metal
FREQUENCY (MHz)	2400-2500	2400-2500 5150-5825	2400-2497	2400-2500
GAIN (dBi)	4.1	4.7 2.5	-0.6	4.9
MOUNTING	PCB Trace	PCB Trace	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	8 x 4	12 x 6	9.90 x 4.30 x 2.00	13.75 x 5.23 x 3.53
KEY FEATURES	Very low cost, Compact, High efficiency	Very low cost, Compact, High efficiency	Ultra-Compact, Low Profile of 2 mm, 10 yrs of Shelf life	Low loss material, Highly efficient ($\eta > 65\%$), High-gain of 4.9 dB

New

New

New

New



PART NUMBER	PRO-OB-536	APARN1204-S2450	APAKN1304-S2450-T	APAKN2504-S2448-T
TYPE	Stamped metal	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	2400-2500 5150-5825	2400-2500	2412-2484	2412-2484
GAIN (dBi)	1.7 2.7	2	5	7
MOUNTING	Surface Mount	Surface Mount	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	14.20 x 6.60 x 2.50	12 x 12 x 4	13 x 13 x 4	25 x 25 x 4
KEY FEATURES	Efficient ($\eta > 44\%$), Extended operating temperature (-40/125°C)	Compact size	High-gain	Very high-gain

New

WI-FI/BLE/ZIGBEE/ISM ANTENNAS



PART NUMBER	APAGM2525-S2450	APARC2505-S2450	APAKN1304-S5517-T	ABAR1504-S2450
TYPE	Passive Patch	Passive Patch	Passive Patch	Board
FREQUENCY (MHz)	2400-2500	2450	5150-5885	2400-2484
GAIN (dBi)	4.5	0.5	6	2.28
MOUNTING	Through-hole Mount / Adhesive Mount	Connector Mount	Surface Mount	Adhesive Mount
POLARIZATION	RHCP	RHCP	Linear	Linear
PACKAGE SIZE (mm)	25 x 25 x 4	25.1 x 25.1 x 5.5	13 x 13 x 4	15 x 4 x 0.8
KEY FEATURES	High-gain	Ø1.37mm, IPEX-1(F)	Compact size, Very high-gain	Ultra-compact size, Low profile, Ø1.13mm, IPEX-1(F)



PART NUMBER	PRO-IS-237	PRO-IS-299	PRO-IS-432	AFAG2220-SW2
TYPE	Board	Board	Board	Flexible PCB
FREQUENCY (MHz)	2400-2500	2400-2500 5150-5850	2400-2500 5150-5850	2400-2500 5100-5900
GAIN (dBi)	3	2.5 1.6	0.8 3.4	5.3 6.5
MOUNTING	Adhesive Mount	Adhesive Mount	Adhesive Mount	Adhesive Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	22.0 x 11.27 x 0.8	22.0 x 11.0 x 0.8	22.0 x 20.0 x 0.8	22 x 20
KEY FEATURES	Compact 2.4GHz triangular antenna, Peak Gain of 3 dBi, IPEX-1(F)	Dual-Band, Peak Gain of 2.5 dBi, IPEX-1(F)	Dual-Band, High-Gain of 3.4 dBi, IPEX-1(F)	Low profile, Dual-band, Ø1.13mm, IPEX-1(F)

New

New

New

WI-FI/BLE/ZIGBEE/ISM ANTENNAS



PART NUMBER	AFG4507W2	AEACAC025009-S2400	PRO-EX-296	PRO-EX-347
TYPE	Flexible PCB	Whip - Straight	Whip - Straight	Whip - Straight
FREQUENCY (MHz)	2400-2500 5150-5850	2400-2483.5	2400-2485	2400-2485
GAIN (dBi)	6.62 8.12	2	3	3
MOUNTING	Adhesive Mount	Connector Mount	Screw Mount	Connector Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	45.0 x 7.8 x 0.2	25.9 x Ø9.5	28 x Ø12	28 x Ø12
KEY FEATURES	Dual-band, High Efficiency, High-gain, IPEX-1(F)	Ultra-compact size, SMA(M)	Ultra-Compact, IPEX-1(F)	Ultra-Compact, SMA(M)

New

New

New



PART NUMBER	PRO-EX-348	AEACAC049009-S2400	PRO-EX-327	PRO-EX-333
TYPE	Whip - Straight	Whip - Straight	Whip - Straight	Whip - Tilt
FREQUENCY (MHz)	2400-2485	2400-2483.5	2400-2485	2400-2485
GAIN (dBi)	3	2	3	3
MOUNTING	Screw Mount	Knuckle Mount	Screw Mount	Connector Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	28 x Ø12	49.3 x Ø9.2	70 x Ø10	83 x Ø10
KEY FEATURES	Ultra-Compact, RP-SMA(M)	Compact size, RG-178, IPEX-1(F)	High Reliability/ Sensitivity, Compact Size, Gain of 3dBi, IPEX-1(F)	High Reliability/ Sensitivity, Compact Size, Gain of 3dBi, RP-SMA(M)

New

New

New

WI-FI/BLE/Bluetooth/ZIGBEE/ISM ANTENNAS



PART NUMBER	AEACAQ190012-S2400	APAMSJ-137	APAMBJ-135	APAMS-121
TYPE	Whip - Tilt	Whip - Straight	Whip - Straight	Whip - Tilt
FREQUENCY (MHz)	2400-2483.5	4850-5850	2400 5000	2350-2450 5700-5900
GAIN (dBi)	5	5	0 2	2 2
MOUNTING	Knuckle Mount	Connector Mount	Connector Mount	Connector Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	190 x Ø12.9	44 x Ø9.6	54.4 x Ø10.0	86 x Ø10.0
KEY FEATURES	High-gain, RG-178, IPEX-1(F)	Compact size, High-gain, SMA(M)	Dual-band, SMA(M)	Dual-band, RP-SMA(M)



PART NUMBER	PRO-EX-285	PRO-EX-286	AEACBK050048-SW2	AEACBK050048-MW2
TYPE	Whip - Tilt	Whip - Tilt	Dome	Dome
FREQUENCY (MHz)	2400-2485 5150-5850	2400-2485 5150-5850	2400-2484 4900-5825	2400-2483 4900-5825
GAIN (dBi)	3	3	2.1 1.86	2.15 0.67
MOUNTING	Connector Mount	Connector Mount	Screw Mount	Screw Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	107 x Ø10	107 x Ø10	Ø50 x 48	Ø50 x 48
KEY FEATURES	High Reliability/ Sensitivity, Customizable Connector options, SMA(M)	High Reliability/ Sensitivity, RP-SMA(M)	IP67 rated, Dual-band, RG-174, SMA(M)	IP67 rated, Dual-band MIMO, 2xRG-174, 2xSMA(M)

New

New



LPWA/LORA/SIGFOX/NB-IOT/ISM ANTENNAS

Abracon offers antennas for LPWAN technologies, which combine low power consumption and wide area coverage to provide cost-effective long battery life solutions for low data rate IoT applications. The ceramic SMD chip, ceramic patch, and external whip type antenna solutions support LPWA (for LoRa, SigFox applications) and ISM (for advanced industrial, scientific, and medical devices) coverage, typically 915 MHz (USA), 868 MHz (Europe), 433 MHz (Asia) and 169 MHz. NB-IoT, Cat M1, and sub-GHz cellular bands antennas are also offered in chip, flexible and external types for connecting devices.

APPLICATIONS

- IoT
- Machine to Machine
- Remote Monitoring
- Connected Lighting
- Smart Meters
- Wearables
- Network Devices
- Automation
- Asset Tracking
- Smart City
- Low Power Radio Links
- Sensor Networks
- Medical Devices
- Home Automation



PART NUMBER	ACAG1204-433-T	ACR200514
TYPE	Chip	Chip
FREQUENCY (MHz)	433	433
GAIN (dBi)	-1.72	0.3
MOUNTING	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear
PACKAGE SIZE (mm)	12 x 4 x 1.6	20.1 x 5.0 x 1.6
KEY FEATURES	Low profile, LoRa/SigFox/ISM	Can be matched for 450~470 MHz Band, Peak Gain of 0.3 dBi (433 MHz)

New



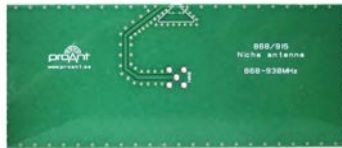
PART NUMBER	ACAG1204-868-T	ACAG1204-915-T	ACR1504I3
TYPE	Chip	Chip	Chip
FREQUENCY (MHZ)	868	915	433 868 915
GAIN (DBI)	2.63	3.42	-4.4 1.75 2.11
MOUNTING	Surface Mount	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear	Linear
PACKAGE SIZE (MM)	12 x 4 x 1.6	12 x 4 x 1.6	15.0 x 4.0 x 1.2
KEY FEATURES	Low profile, LoRA/SigFox/ISM	Low profile, LoRA/SigFox/ISM	Multiband Coverage with Matching, Ideal Omni-directional patterns, High Efficiency at 868 & 915 MHz

New



PART NUMBER	ACAR3705-SB	ACAR3705-S698	ACAR4008-S698
TYPE	Chip	Chip	Chip
FREQUENCY (MHZ)	698-960	700-960 1710-2170 2500-2700	700-960 1710-2170 2500-2700
GAIN (DBI)	0.61	1.07 4.03 3.76	0.33 4.1 2.74
MOUNTING	Surface Mount	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear	Linear
PACKAGE SIZE (MM)	37 x 5 x 5	37 x 5 x 5	40 x 8 x 3.2
KEY FEATURES	Multi-band, Sub-GHz NB-IoT/LTE Cat M1	Multi-band, NB-IoT/LTE Cat M1	Multi-band, NB-IoT/LTE Cat M1

LPWA/LORA/SIGFOX/NB-IOT/ISM ANTENNAS



PART NUMBER	PRO-EB-596	PRO-EB-597	PRO-EB-598
TYPE	Niche	Niche	Niche
FREQUENCY (MHZ)	868-928	791-960	791-960 1710-2170
GAIN (DBI)	3	5.5	5.1
MOUNTING	PCB Trace	PCB Trace	PCB Trace
POLARIZATION	Linear	Linear	Linear
PACKAGE SIZE (MM)	16 x 8	25 x 16	25 x 16
KEY FEATURES	Very low cost, Ultra-Compact, High efficiency	Very low cost, Compact, High efficiency	Very low cost, Compact, High efficiency

New

New

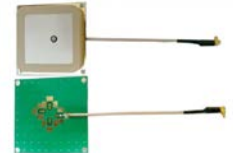
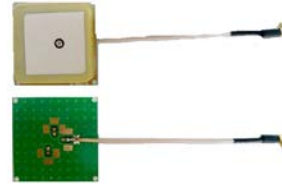
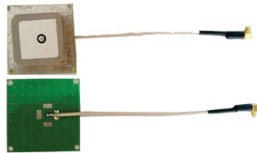
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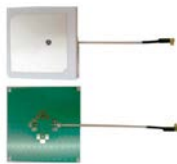
PART NUMBER	PRO-OB-471	PRO-OB-572	ARRCN5-868.000MHz
TYPE	Stamped metal	Stamped metal	Passive Patch
FREQUENCY (MHZ)	868 915 868 + 2400	791-960 1710-2170	868
GAIN (DBI)	1.7 2.4 1 3.8	2.2 2.3	-5
MOUNTING	Surface Mount	Surface Mount	Connector Mount
POLARIZATION	Linear	Linear	RHCP
PACKAGE SIZE (MM)	34.00 x 11.53 x 4.93	50 x 25 x 10	20.5 x 20.5 x 7.8
KEY FEATURES	868/915/868+2400 MHz, Profile of 4.93 mm, Efficiency > 50%, 10 yrs of shelf life	Multi-band, Profile of 10 mm, Efficiency > 50%, 10 yrs of Shelf life	Built-in ground plane, Compact size, LPWA/ISM, RG-178, MMCX(M)

New

New

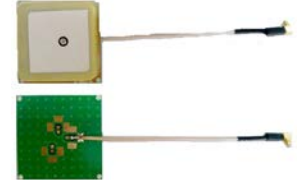
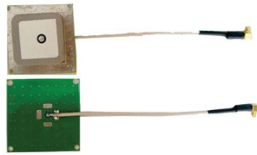


PART NUMBER	APAE868R2540JBDB2-T	ARRAN5-868.000MHz	ARRRN5-868.000MHz	ARRSN5-868.000MHz
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	868	868	868	868
GAIN (dBi)	-1.37	0.5	1.5	2.5
MOUNTING	Through-hole Mount / Adhesive Mount	Connector Mount	Connector Mount	Connector Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	25 x 25 x 4	35 x 35 x 8.2	40 x 40 x 8	50 x 50 x 9.4
KEY FEATURES	Compact size, LoRa/SigFox/ISM	Built-in ground plane, LPWA/ISM, RG-178, MMCX(M)	Built-in ground plane, LPWA/ISM, RG-178, MMCX(M)	Built-in ground plane, RG-178, MMCX(M)

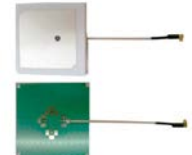
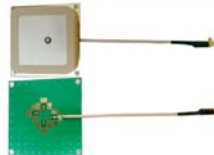
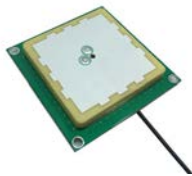


PART NUMBER	ARRTN5-868.000MHz	APAES868R8060C16-T	ARRUN5-868.000MHz	ARRCN5-915.000MHz
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	868	868	868	915
GAIN (dBi)	3.5	5	5.5	-5
MOUNTING	Connector Mount	Through-hole Mount / Adhesive Mount	Connector Mount	Connector Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	65 x 65 x 9.2	80 x 80 x 6	120 x 120 x 9.5	20.5 x 20.5 x 7.8
KEY FEATURES	Built-in ground plane, LPWA/ISM, RG-178, MMCX(M)	High-gain, LoRa/ SigFox/ISM	Built-in ground plane, High-gain, LPWA/ISM, RG-178, MMCX(M)	Built-in ground plane, Compact size, LPWA/ISM, RG-178, MMCX(M)

LPWA/LORA/SIGFOX/NB-IOT/ISM ANTENNAS

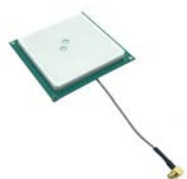


PART NUMBER	APAE915R2540ABDB1-T	ARRAN5-915.000MHz	ARRK4065-S915A	ARRRN5-915.000MHz
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	915	915	915	915
GAIN (dBi)	-	0.5	1.5	1.5
MOUNTING	Through-hole Mount / Adhesive Mount	Connector Mount	Connector Mount	Connector Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	25 x 25 x 4	35 x 35 x 8.2	40 x 40 x 6.5	40 x 40 x 8
KEY FEATURES	Compact size, LoRa/SigFox/ISM	Built-in ground plane, LPWA/ISM, RG-178, MMCX(M)	Built-in ground plane, Ø1.13mm, LPWA/ISM, IPEX-1(F)	Built-in ground plane, LPWA/ISM, RG-178, MMCX(M)



PART NUMBER	ARRK5062-S915B	ARRSN5-915.000MHz	APAES915R6460C16-T	ARRTN5-915.000MHz
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	915	915	915	915
GAIN (dBi)	3	2.5	3.5	3.5
MOUNTING	Connector Mount	Connector Mount	Through-hole Mount / Adhesive Mount	Connector Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	50 x 50 x 6.2	50 x 50 x 9.4	62.5 x 62.5 x 6	65 x 65 x 9.2
KEY FEATURES	Built-in ground plane, LPWA/ISM, RG-178, MMCX(M)	Built-in ground plane, LPWA/ISM, RG-178, MMCX(M)	LPWA/LoRa/SigFox/ISM	Built-in ground plane, LPWA/ISM, RG-178, MMCX(M)

LPWA/LORA/SIGFOX/NB-IOT/ISM ANTENNAS



PART NUMBER	ARRKP7059-S915B	APAES915R80C16-T	ARRUN5-915.000MHz	APAES923R3640C16-T
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	915	915	915	923
GAIN (dBi)	4	5	5.5	1.5
MOUNTING	Connector Mount	Through-hole Mount / Adhesive Mount	Connector Mount	Through-hole Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	70 x 70 x 5.9	80 x 80 x 6	120 x 120 x 9.5	36 x 36 x 4
KEY FEATURES	High-gain, Built-in ground plane, LPWA/ISM, RG-178, MMCX(M)	High-gain, LoRa/SigFox/ISM	Built-in ground plane, High-gain, LPWA/ISM, RG-178, MMCX(M)	LoRa/SigFox/ISM



PART NUMBER	APAES923R4560C16-T	ABR340718	ABR340719	PRO-IS-265
TYPE	Passive Patch	Board	Board	Board
FREQUENCY (MHz)	923	868-870	902-928	433-435 865-870
GAIN (dBi)	2.5	1.28	1.84	3
MOUNTING	Through-hole Mount / Adhesive Mount	Adhesive Mount	Adhesive Mount	Adhesive Mount
POLARIZATION	RHCP	Linear	Linear	Linear
PACKAGE SIZE (mm)	45 x 45 x 6	34 x 7 x 0.8	34 x 7 x 0.8	86.0 x 8.0 x 0.8
KEY FEATURES	LPWA/LoRa/SigFox/ISM	Double Sided Foam, Peak Gain of 1.28 dBi, IPEX-1(F)	Double Sided Foam, Peak Gain of 1.84 dBi, IPEX-1(F)	Dual-Band, High-gain of 3dBi, IPEX-1(F)

New

New

New



PART NUMBER	PRO-IS-212	PRO-IS-573	PRO-IS-279	PRO-IS-577
TYPE	Board	Board	Flexible PCB	Flexible PCB
FREQUENCY (MHz)	868-960 1710-1990	791-960 1710-1990	868-960 1710-1990	791-960 1710-2170
GAIN (dBi)	2.9 1.9	4.1 2.8	2.0 3.4	5.3 2.9
MOUNTING	Adhesive Mount	Adhesive Mount	Adhesive Mount	Adhesive Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	50.0 x 8.0 x 0.8	75.0 x 8.0 x 0.8	58.0 x 8.5 x 0.2	93.0 x 10.0 x 0.13
KEY FEATURES	Gain of up to 2.9 dBi, IPEX-1(F)	Gain of 4.1 dBi, Efficiency > 66%, IPEX-1(F)	Low Profile of 0.2 mm, High-gain of up to 3.4 dBi, IPEX-1(F)	Low Profile of 0.13, High-gain (5.3 dBi), Efficiency > 55%, IPEX-1(F)

New

New

New

New



PART NUMBER	AFAC5867-S698	AFAC110020-S698	AFC8513U4G	AEACAC254010-S169
TYPE	Flexible PCB	Flexible PCB	Flexible PCB	Whip - Tilt
FREQUENCY (MHz)	698-960 1710-2690	698-960 1710-2690	698-4000	161-177
GAIN (dBi)	0.82 3.1	3.04 2.53	5	2
MOUNTING	Adhesive Mount	Adhesive Mount	Adhesive Mount	Connector Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	67.4 x 58.4 x 0.2	110 x 20 x 0.2	85.0 x 13.8 x 0.2	254 x Ø10.9
KEY FEATURES	Low profile, Compact size, NB-IoT/LTE Cat M1, Ø1.13mm, IPEX-1(F)	Low profile, Multi-band, NB-IoT/LTE Cat M1, Ø1.13mm, IPEX-1(F)	5G/CBRS, Compact, Wideband, Ø1.13 mm, IPEX-1(F)	LoRa/SigFox/ISM, SMA(M)

LPWA/LORA/SIGFOX/NB-IOT/ISM ANTENNAS



PART NUMBER	PRO-EX-435	AEACAC053010Z-S433	PRO-EX-315	AEACAC049018-S868
TYPE	Whip - Straight	Whip - Straight	Whip - Straight	Whip - Right Angle
FREQUENCY (MHz)	169	433	433-435	868
GAIN (dBi)	5	2	5	2
MOUNTING	Bracket Mount	Connector Mount	Connector Mount	Connector Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	1200	53.4 x Ø10.4	380 x Ø10	49.9 x Ø18.6
KEY FEATURES	High Performance, Efficiency of 81%, N-Type(F)	Ultra-compact size, LoRa/ SigFox/ISM, SMA(M)	High-gain of 5dBi, SMA(M)	Compact size, Low profile, LoRa/ SigFox/ISM, SMA(M)

New

New



PART NUMBER	AEACAC053010-S868	AEACAC190012-S868	AEACAC195013-S868	AEACAC054010-S915
TYPE	Whip - Straight	Whip - Straight	Whip - Tilt	Whip - Straight
FREQUENCY (MHz)	868	868	868	915
GAIN (dBi)	2	3.5	3	2
MOUNTING	Connector Mount	Knuckle Mount	Connector Mount	Connector Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	53.4 x Ø10.4	190 x Ø12.9	195 x Ø12.9	45.9 x Ø10.0
KEY FEATURES	Compact size, Low profile, LoRa/ SigFox/ISM, SMA(M)	High-gain, LPWA/ISM, Ø1.37mm, IPEX-1(F)	LoRa/SigFox/ISM, SMA(M)	Compact size, Low profile, LPWA/ISM, SMA(M)

LPWA/LORA/SIGFOX/NB-IOT/ISM ANTENNAS



PART NUMBER	AEACAD153029-S433	AEACAC195013-S915	AEACAD097015-S698	AEACAD153029-S433
TYPE	Whip - Straight	Whip - Tilt	Whip - Straight	Whip - Straight
FREQUENCY (MHz)	433-960	915	700-2700	433-960
GAIN (dBi)	3	3	5	3
MOUNTING	Magnetic Mount	Connector Mount	Magnetic Mount	Magnetic Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	153.3 x Ø29.4	195 x Ø12.9	97 x Ø15	190 x Ø12.9
KEY FEATURES	LoRa/SigFox/ISM/Sub-GHz - NB-IoT/LTE Cat M1, RG-174, SMA(M)	LoRa/SigFox/ISM, SMA(M)	High-gain, NB-IoT/LTE Cat M1, RG-58, SMA(M)	High-gain, LPWA/ISM, Ø1.37mm, IPEX-1(F)



PART NUMBER	AEACBK081014-S698	AEACCA115021-S698	AEACAD460065-S698	AEACAC198013-S698
TYPE	Puck	Blade	Whip - Straight	Whip - Tilt
FREQUENCY (MHz)	698-960 1710-2690	698-960 1710-2655	698-960 1710-2700	698-960 1710-2655
GAIN (dBi)	3.11 2.57	2.6 1.61	5.37 4.74	4.6 3.2
MOUNTING	Screw Mount	Adhesive Mount	Magnetic Mount	Connector Mount
POLARIZATION	Linear	Linear	Linear	Linear
PACKAGE SIZE (mm)	Ø81.3 x 14.6	115.6 x 21.7 x 5.8	460 x Ø65	198 x Ø13.0
KEY FEATURES	IP67 rated, NB-IoT/LTE Cat M1, RG-174, SMA(M)	Low profile, NB-IoT/LTE Cat M1, RG-174, SMA(M)	High-gain, NB-IoT/LTE Cat M1, RG-58, SMA(M)	LoRa/SigFox/ISM/Sub-GHz - NB-IoT/LTE Cat M1, SMA(M)

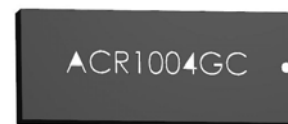
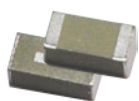
GNSS/GPS(L1/L2/L5)/GLONASS/BEIDOU/GALILEO ANTENNAS

Abrakon offers GNSS/GPS(L1/L2/L5)/GLONASS/BeiDou/Galileo antennas with multi-band capability and weather resistance to maximize the GNSS receiver's performance in rugged environments.

The solutions span across a range of choices, such as linear, circular, and omnidirectional polarization. They include small ceramic SMD chip antennas, directional patch antennas, and high-accuracy stacked patch antennas that allow flexibility of antenna orientation for receiving a satellite signal. The options include active antennas with integrated high gain LNA guaranteeing positioning accuracy and reliability for GNSS signals.

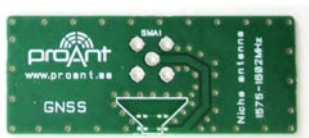
APPLICATIONS

- IoT
- Industrial Drones
- Security Surveillance
- Machine to Machine
- Surveying
- Mapping
- Navigation
- Fleet Management
- Smart Agriculture
- Rail Systems
- Marine GPS
- Transportation
- Commercial Vehicles
- Geofencing
- Logistics



PART NUMBER	ACAG0301-1575-T	ACAR0301-SG3	ACR1004GC
TYPE	Chip	Chip	Chip
FREQUENCY (MHZ)	1575	1561-1610	1166-1186 1561-1610
GAIN (DBI)	4.18	1.69 -1.81 1.43	1.9 2.8
MOUNTING	Surface Mount	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear	Linear
PACKAGE SIZE (MM)	3.2 x 1.6 x 0.6	3.05 x 1.6 x 0.55	10 x 4 x 1.5
KEY FEATURES	GPS, High-gain	GNSS, Multi-band, Low profile	GPS L1+L5/GNSS, Multiband, High Efficiency

New



PART NUMBER	PRO-EB-593	PRO-OB-430	APAKN0904-S1575-T	APAE1575R1240ABDD1-T
TYPE	Niche	Stamped metal	Passive Patch	Passive Patch
FREQUENCY (MHz)	1559-1602	1560-1602	1575.42	1575.42
GAIN (dBi)	2	0.7	0.5	0.6
MOUNTING	PCB Trace	Surface Mount	Surface Mount	Through-hole Mount / Adhesive Mount
POLARIZATION	Linear	Linear	RHCP	RHCP
PACKAGE SIZE (mm)	12 x 6	12.50 x 12.43 x 3.33	9 x 9 x 4	12 x 12 x 4
KEY FEATURES	Very low cost, Compact, High efficiency	Compact, Low Profile, Efficiency >55%, 10 yrs of Shelf life	GPS, Ultra-compact size	GPS, Compact size

New

New



PART NUMBER	APAE1575R1340ABDD6-T	APAE1575R1540AZDB2F-T	APAE1575R1820ABDC1-T	APAE1575R1840AADB7-T
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	1575.42	1575.42	1575.42	1575.42
GAIN (dBi)	-	1.2	3.3	-
MOUNTING	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	13 x 13 x 4	15 x 15 x 4	18 x 18 x 2	18 x 18 x 4
KEY FEATURES	GPS, Compact size	GPS, Compact size	GPS, Compact size	GPS, Compact size



PART NUMBER	APAE1575R1840BADB1F-T	APAE1575R2040ABDD2-T	APAE1575R2520ABDD7-T	APAE1575R2540AADBE-T
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	1575.42	1575.42	1575.42	1575.42
GAIN (dBi)	3.3	-	4.3	4.5
MOUNTING	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	18 x 18 x 4	20 x 20 x 4	25 x 25 x 2	25 x 25 x 4
KEY FEATURES	GPS, Compact size	GPS, Compact size	GPS, Low profile, High-gain	GPS, High-gain



PART NUMBER	APAE1575R2540BBDB1-T	APAEA1575R0940K14-T	APAES1575R1040J34-T	APAKN1304-C2G-T
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	1575.42	1606	1606	1575.42 1602
GAIN (dBi)	4.5	-1	-2	2.6 2.4
MOUNTING	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Surface Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	25 x 25 x 4	9 x 9 x 4	10 x 10 x 4	13 x 13 x 4
KEY FEATURES	GPS, High-gain	GPS/GLONASS, Ultra-compact size	GPS/GLONASS, Compact size	GPS/GLONASS, Compact size



PART NUMBER	APAE1590R1340AKDB2-T	APAE1590R1350AKDB5-T	APARM1504-SG3	APRA1804G3Z
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	1575 1598-1606	1575 1598-1606	1561 1575 1602	1561-1602
GAIN (dBi)	-2 -2	-2 -2	-3 -4.5 0.8	3.5 2.6 4.7
MOUNTING	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	13 x 13 x 4	13 x 13 x 5	15 x 15 x 4	18 x 18 x 4
KEY FEATURES	GPS/GLONASS, Compact size	GPS/GLONASS, Compact size	GNSS, Multi-band, Low profile	AECQ200, GNSS, Multi-band, Compact size



PART NUMBER	APARM1804-SG3	APAKN1804-C2G-T	APAE1590R2540AKDB1-T	APAKN2504-C2G-T
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	1561 1575.42 1602	1575.42 1602	1575 1592-1608	1575.42 1602
GAIN (dBi)	3 2 4	2.8 2.9	-	3.6 3.6
MOUNTING	Through-hole Mount / Adhesive Mount	Surface Mount	Through-hole Mount / Adhesive Mount	Surface Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	18 x 18 x 4	18 x 18 x 4	25 x 25 x 4	25 x 25 x 4
KEY FEATURES	GNSS, Multi-band, Compact size	GPS/GLONASS, Compact size	GPS/GLONASS	GPS/GLONASS, High-gain



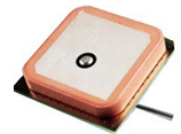
PART NUMBER	APRA2504G3Z	APARM2504-SG3	APARM3503-SG3	APAGM3606-SG3
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	1561 1575 1602	1561 1575 1602	1561 1575.42 1602	1562 1575 1602
GAIN (dBi)	3.4 2.4 4.2	2.5 1.5 3.5	4.0 3.0 4.5	4.44 4.75 4.02
MOUNTING	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	25.1 x 25.1 x 4	25.1 x 25.1 x 4	35 x 35 x 3	36 x 36 x 6
KEY FEATURES	AECQ200, GNSS, Multi-band, High-gain	GNSS, Multi-band, High-gain	GNSS, Multi-band, High-gain	GNSS, Multi-band, High-gain, High efficiency



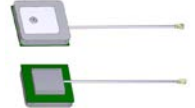
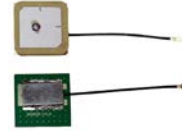
PART NUMBER	APAKM3513-SGL2	APAKM2507S-SGL5	APRE2508GCZ	APARM2508S-SG3L5
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	1227 1575	1176.45 1575.42	1176 1561 1575 1577 1602	1176 1561 1575 1577 1602
GAIN (dBi)	1.2 3.1	-3 4	1.3 3.1 1.6 1.6 4.3	0.5 2.4 0.6 0.6 3.4
MOUNTING	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	35.6 x 35.6 x 13.5	25 x 25 x 7.5	25.1 x 25.1 x 8	25.1 x 25.1 x 8
KEY FEATURES	GPS(L1+L2)	GPS(L1+L5), High-gain	AECQ200, GNSS, GPS (L1+L5)	GPS(L1+L5)/GLONASS, Compact size



PART NUMBER	APARM2508S-SGL2L5	APAM0968JL03V2.0	APAM1068JL01V2.0	APAM1268JL02V2.0
TYPE	Passive Patch	Active Patch	Active Patch	Active Patch
FREQUENCY (MHz)	1176 1227 1575	1575.42	1575.42	1575.42
GAIN (dBi)	-0.5 -0.3 3.8	-3	-2	0
MOUNTING	Through-hole Mount / Adhesive Mount	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	25 x 25 x 8	9 x 9 x 6.8	10 x 10 x 6.8	12 x 12 x 6.8
KEY FEATURES	GPS(L1+L2+L5)/GLONASS, Compact size	GPS, Ultra-compact size, Ø0.80mm, IPEX-1(F)	GPS, Compact size, Ø0.80mm, IPEX-1(F)	GPS, LNA gain : 18 dB, Ø0.80mm, IPEX-1(F)

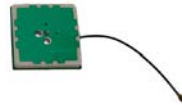
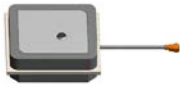


PART NUMBER	APAM1368YB13V3.0	APAM1568YE15V2.0	APAM1866YA18	APAM2764YK0175
TYPE	Active Patch	Active Patch	Active Patch	Active Patch
FREQUENCY (MHz)	1575.42	1575.42	1575.42	1575.42
GAIN (dBi)	0	1.5	2.5	2.5
MOUNTING	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	13 x 13 x 6.8	15 x 15 x 6.8	18 x 18 x 7	27 x 27 x 7
KEY FEATURES	GPS, LNA gain : 19 dB, Ø0.81mm, IPEX-1(F)	GPS, LNA gain : 18 dB, Ø0.80mm, IPEX-1(F)	GPS, LNA gain: 27 dB, Ø1.13mm, IPEX-1(F)	GPS, LNA gain: 28 dB, Ø1.13mm, IPEX-1(F)



PART NUMBER	APKD1507G2	APARC1807A-SG3	APAKC2506A-SG3	APARC2504A-SG3
TYPE	Active Patch	Active Patch	Active Patch	Active Patch
FREQUENCY (MHz)	1575.42 1598.06-1605.38	1561-1602	1555-1615	1561 1575.42 1602
GAIN (dBi)	1	-6.5 -6.5 -6.0	-1.5 -1 -2.5	-1 -2.5 -1.5
MOUNTING	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	15 x 15 x 7	18 x 18 x 7.6	25 x 25 x 6.9	25 x 25 x 7.4
KEY FEATURES	GNSS, GPS/GLONASS, IPEX-1(F)	GNSS, Multi-band, High-gain LNA, Ø1.13mm, IPEX-1(F)	GNSS, Multi-band, High-gain LNA : 32 dB, Ø1.13mm, IPEX-2(F)	GNSS, Multi-band, LNA gain: 18 dB, Ø1.13mm, IPEX-1(F)

New



PART NUMBER	APAGM2704A-C2G	APAKC3508A-SG3	APRG2512F01	APARC2511X-SG3L5
TYPE	Active Patch	Active Patch	Active Patch	Active Patch
FREQUENCY (MHz)	1575.42-1601.02	1555-1615	1227 1575.42 1602 1625	1176 1561 1575.42 1602
GAIN (dBi)	4.5	3.0 2.8 2.5 3.0	1.5 0 -0.5 0.5	-2 -2 0 2
MOUNTING	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount	Surface Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	27 x 27 x 4	35 x 35 x 8.7	25 x 25 x 12.4	25 x 25 x 13
KEY FEATURES	GPS/GLONASS, LNA gain: 28 dB, Ø1.13mm, IPEX-1(F)	GNSS, Multi-band, High-gain LNA : 32 dB, Ø1.13mm, IPEX-2(F)	GPS(L1+L2) +Iridium, Compact size, IPEX-1(F)	GPS(L1+L5)/GLONASS, Compact size, Ø1.13mm, IPEX-1(F)

New



PART NUMBER	APARC2511X-SGL2L5	AFAG3030-SG3	AFAG4330-SG3	AECC0502GB
TYPE	Active Patch	Flexible PCB	Flexible PCB	Whip - Straight
FREQUENCY (MHz)	1176.45 1227.6 1575.42	1550-1620	1550-1620	1207-1278 1561-1610
GAIN (dBi)	2.09 2.24 -3.5	2.5	6.3	2
MOUNTING	Surface Mount / Adhesive Mount	Adhesive Mount	Adhesive Mount	Connector Mount
POLARIZATION	RHCP	Linear	Linear	RHCP
PACKAGE SIZE (mm)	25 x 25 x 12.4	30 x 30 x 0.2	40 x 10	55.6 x Ø27.5
KEY FEATURES	GPS(L1+L2+L5), Compact size, Ø1.13mm, IPEX-1(F)	GNSS, Low Profile, Ø1.13mm, IPEX-1(F)	Low profile, High-gain, Ø1.13mm, IPEX-1(F)	Ultra Low Profile, IP67, Active GNSS, GPS L1+L2, GLONASS, BeiDou, Galileo, SMA(M)



PART NUMBER	APAMP-114+132:13118:125	APAMP-113	APAMP-127	APAMP-111
TYPE	Puck	Puck	Puck	Puck
FREQUENCY (MHz)	1575.42	1575.42	1576.44	1575.42
GAIN (dBi)	1	5	5	5
MOUNTING	Adhesive Mount	Adhesive Mount	Magnetic Mount	Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	26 x 23 x 12	38 x 34 x 12	38 x 34 x 12	38.3 x 35 x 12
KEY FEATURES	GPS, LNA gain: 26 dB, RG-174, SMA(M)	GPS, High-gain, LNA gain: 28 dB, RG-174, FAKRA-C(F)	GPS, High-gain, LNA gain: 28 dB, RG-174, FAKRA-C(F)	GPS, High-gain, LNA gain: 28 dB, SMA(M)



PART NUMBER	APAMP-125	APAMP-128	APAMP-115	APAMP-116
TYPE	Puck	Puck	Puck	Puck
FREQUENCY (MHz)	1576.44	1576.44	1575.42	1575.42
GAIN (dBi)	5	3.5	3.5	5
MOUNTING	Magnetic Mount	Magnetic Mount	Adhesive Mount	Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	38.3 x 35 x 12	40 x 35 x 13.1	40 x 35 x 15.1	44 x 37 x 14.5
KEY FEATURES	GPS, High-gain, LNA gain: 27 dB, RG-174, SMA(M)	GPS, High-gain, LNA gain: 28 dB, RG-174, SMA(M)	GPS, LNA gain: 28 dB, RG-174, SMA(M)	GPS, High-gain, LNA gain: 27 dB, RG-174, SMA(M)



PART NUMBER	APAMP-129	APAMP-112	APAMP-107	APAMP-122
TYPE	Puck	Puck	Puck	Puck
FREQUENCY (MHz)	1576.44	1575.42	1575.42	1576.44
GAIN (dBi)	5	5	5	5
MOUNTING	Magnetic Mount	Adhesive Mount	Adhesive Mount	Magnetic Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	44 x 37 x 14.5	46 x 38 x 15	48.6 x 39.2 x 15.2	48.6 x 39.2 x 15.2
KEY FEATURES	GPS, LNA gain: 27 dB, RG-174, SMA(M)	GPS, High-gain, LNA gain: 27 dB, RG-174, SMA(M)	GPS, High-gain, LNA gain: 27 dB, SMA(M)	GPS, High-gain, LNA gain: 27 dB, SMA(M)



PART NUMBER	APAMP-124	APAMP-126	APAMP-109	APAMP-123
TYPE	Puck	Puck	Puck	Puck
FREQUENCY (MHz)	1576.44	1576.44	1575.42	1576.44
GAIN (dBi)	5	5	5	5
MOUNTING	Magnetic Mount	Magnetic Mount	Adhesive Mount	Magnetic Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	49.2 x 40 x 15.2	49.2 x 40 x 15.2	50.6 x 50.6 x 15.1	50.6 x 50.6 x 15.1
KEY FEATURES	GPS, High-gain, LNA gain: 29 dB, RG-174, SMA(M)	GPS, High-gain, LNA gain: 27 dB, RG-174, SMA(M)	GPS, High-gain, LNA gain: 26 dB, RG-174, SMA(M)	GPS, High-gain, LNA gain: 26 dB, RG-174, SMA(M)



PART NUMBER	APAMP-108	APAMPG-117	APAMPG-130	AEACBA045015-SG2
TYPE	Puck	Puck	Puck	Puck
FREQUENCY (MHz)	1575.42	1575.42 1594-1610	1576.44 1594-1610	1575-1602
GAIN (dBi)	5	5	5	5
MOUNTING	Adhesive Mount	Adhesive Mount	Magnetic Mount	Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	54.5 x 44.5 x 14.8	44 x 14.5	44 x 14.5	45.2 x 35.8 x 15.2
KEY FEATURES	GPS, High-gain, LNA gain: 27 dB, SMA(M)	High-gain, LNA gain: 30 dB, GPS/GLONASS, SMA(M)	GPS/GLONASS, High-gain, LNA gain: 30 dB, SMA(M)	GPS/GLONASS, Multi-band, IP67 rated, RG-174, SMA(M)



PART NUMBER	AEACBD045015-SG2	AEARBA048014-SG3	AEARBD048014-SG3	AEACBA050018-SG3
TYPE	Puck	Puck	Puck	Puck
FREQUENCY (MHz)	1575-1602	1559-1610	1559-1610	1561-1602
GAIN (dBi)	5	5.78 4.27 5.65	5.78 4.27 5.65	5
MOUNTING	Magnetic Mount	Adhesive Mount	Magnetic Mount	Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	45.2 x 35.8 x 15.2	48.5 x 47 x 14	48.5 x 47 x 14	50 x 50 x 18
KEY FEATURES	GPS/GLONASS, High-gain, RG-174, SMA(M)	GNSS, Multi-band, High-gain, LNA gain: 28 dB, Ø2.7mm, SMA(M)	GNSS, Multi-band, High-gain, LNA gain: 28 dB, Ø2.7mm, SMA(M)	GNSS, Multi-band, High-gain, LNA gain: 34 dB, RG-174, SMA(M)



PART NUMBER	AEACBD050018-SG3	AEACBA050018-SG4L2L5	AEACMK0660746-SG4	AEAGMK148060-S1575
TYPE	Puck	Puck	Dome	Dome
FREQUENCY (MHz)	1561-1602	1561-1602 1176-1227	1561-1602	1164-1300 1559-1615
GAIN (dBi)	5	3	5	3.5 4.5
MOUNTING	Magnetic Mount	Adhesive Mount / Magnetic Mount	Screw Mount	Screw Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	50 x 50 x 18	50 x 50 x 18	76 x Ø66.5	Ø148 x 60
KEY FEATURES	GNSS, Multi-band, IP67 rated, RG-174, SMA(M)	GPS(L1+L2+L5)/GLONASS, Multi-band, IP67 rated, RG-174, SMA(M)	GNSS, Multi-band, Ultra-High-gain, IP67 rated, TNC(F)	GNSS, Multi-band, High-gain, IP66 rated, TNC(F)



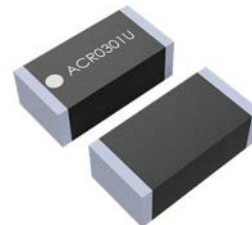
UWB ANTENNAS

Abrakon's Ultra-Wideband (UWB) antennas are designed for the next generation of connectivity to provide faster-and-reliable communication with low power consumption only during active mode. UWB is best suited to offer high-precision positioning in line-of-sight applications.

Our UWB antennas operate in the 3.1 GHz ~ 10.6 GHz spectrum. The UWB antennas are suitable for applications such as secure car access, Item tracking, Indoor navigation, hands-free payment, smart access, and object detection.

APPLICATIONS

- Secure Car Access
- Hands-Free Payment
- Item Tracking
- Smart Access
- Indoor Navigation
- Object Detection



PART NUMBER	ACR1004U	ACR0301U
TYPE	Chip	Chip
FREQUENCY (MHz)	3000-6000	6240-8500
GAIN (dBi)	5.79	4.5
MOUNTING	Surface Mount	Surface Mount
POLARIZATION	Linear	Linear
PACKAGE SIZE (mm)	10.0 x 4.0 x 1.5	3.2 x 1.6 x 1.1
KEY FEATURES	High-gain of 5.79 dBi, Efficiency > 60%	High-gain of 4.5 dBi, High Efficiency of 70 ~ 80 %

New

New

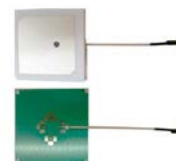
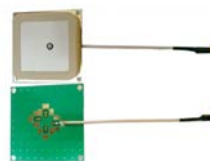
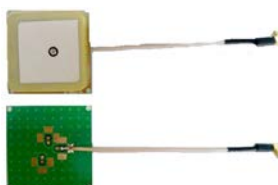


RFID READER ANTENNAS

Abracon offers patch antennas for ultra-high frequency (UHF) RFID applications in 868 MHz (Europe) or 915 MHz (USA). These patch antennas come in assorted sizes, featuring circular polarization and high-gain performance with directional patterns. Our high-performing reader antennas feature easy installation and come tuned to the ground plane, allowing the RFID reader systems to meet the read range specified with each tag.

APPLICATIONS

- Logistics
- Industrial Automation
- Manufacturing
- Inventory Management
- Smart Cards
- Field Mobility
- Pharmaceutical
- Asset Management
- Transportation

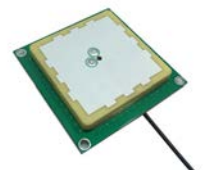
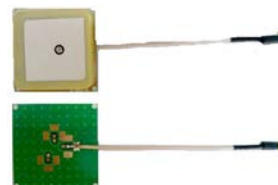
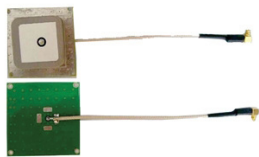


PART NUMBER	APAE868R2540JBDB2-T	ARRRN5-868.000MHz	ARRSN5-868.000MHz	ARRTN5-868.000MHz
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	868	868	868	868
GAIN (dBi)	-1.37	1.5	2.5	3.5
MOUNTING	Through-hole Mount / Adhesive Mount	Connector Mount	Connector Mount	Connector Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	25 x 25 x 4	40 x 40 x 8	50 x 50 x 9.4	65 x 65 x 9.2
KEY FEATURES	Compact size	Built-in ground plane, RG-178, MMCX(M)	Built-in ground plane, RG-178, MMCX(M)	Built-in ground plane, RG-178, MMCX(M)

RFID READER ANTENNAS

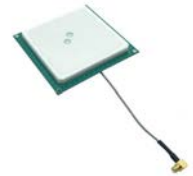
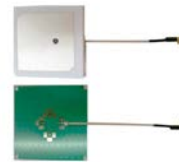
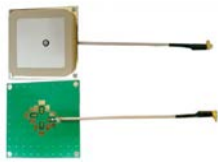


PART NUMBER	APAES868R8060C16-T	ARRUN5-868.000MHz	ARRCN5-915.000MHz	APAE915R2540ABDB1-T
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	868	868	915	915
GAIN (dBi)	5	5.5	-5	-
MOUNTING	Through-hole Mount / Adhesive Mount	Connector Mount	Connector Mount	Through-hole Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	80 x 80 x 6	120 x 120 x 9.5	20.5 x 20.5 x 7.8	25 x 25 x 4
KEY FEATURES	High-gain	High-gain, RG-178, MMCX(M)	Compact size, LPWA/ISM, RG-178, MMCX(M)	Compact size



PART NUMBER	ARRAN5-915.000MHz	ARRKP4065-S915A	ARRRN5-915.000MHz	ARRKP5062-S915B
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	915	915	915	915
GAIN (dBi)	0.5	1.5	1.5	3
MOUNTING	Connector Mount	Connector Mount	Connector Mount	Connector Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	35 x 35 x 8.2	40 x 40 x 6.5	40 x 40 x 8	50 x 50 x 6.2
KEY FEATURES	Built-in ground plane, RG-178, MMCX(M)	Built-in ground plane, Ø11.3mm, IPEX-1(F)	Built-in ground plane, RG-178, MMCX(M)	Built-in ground plane, RG-178, MMCX(M)

RFID READER ANTENNAS



PART NUMBER	ARRSN5-915.000MHz	APAES915R6460C16-T	ARRTN5-915.000MHz	ARRKP7059-S915B
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	915	915	915	915
GAIN (dBi)	2.5	3.5	3.5	4
MOUNTING	Connector Mount	Through-hole Mount / Adhesive Mount	Connector Mount	Connector Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	50 x 50 x 9.4	62.5 x 62.5 x 6	65 x 65 x 9.2	70 x 70 x 5.9
KEY FEATURES	Built-in ground plane, RG-178, MMCX(M)		Built-in ground plane, RG-178, MMCX(M)	High-gain, Built-in ground plane, RG-178, MMCX(M)



PART NUMBER	APAES915R80C16-T	ARRUN5-915.000MHz	APAES923R3640C16-T	APAES923R4560C16-T
TYPE	Passive Patch	Passive Patch	Passive Patch	Passive Patch
FREQUENCY (MHz)	915	915	923	923
GAIN (dBi)	5	5.5	1.5	2.5
MOUNTING	Through-hole Mount / Adhesive Mount	Connector Mount	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount
POLARIZATION	RHCP	RHCP	RHCP	RHCP
PACKAGE SIZE (mm)	80 x 80 x 6	120 x 120 x 9.5	36 x 36 x 4	45 x 45 x 6
KEY FEATURES	High-gain	High-gain, Built-in ground plane, RG-178, MMCX(M)		



SATELLITE COMMUNICATIONS ANTENNAS

Abracon offers patch and external antennas for satellite communications compatible with Iridium or Satellite Digital Audio Radio Services (SDARS). Our antennas feature high-gain, low profile, and right-hand circular polarization to maximize sensitivity in compact applications. Abracon also offers optimization for customer-specific devices, making them compatible with the most popular satellite radio services and Iridium communication systems.

APPLICATIONS

- Fleet Tracking
- Asset Tracking
- Personal Tracking
- Handheld Devices
- Satellite Telephony
- Utility Monitoring
- Automotive
- Satellite Radios



PART NUMBER	APAE1621R2540ABDD1-T	AEARBD040038-S1621	APAE2338L2540DDDB1-T	AEACBD045015-S2332
TYPE	Passive Patch	Puck	Passive Patch	Puck
FREQUENCY (MHz)	1621	1616-1626.5	2338	2320-2345
GAIN (dBi)	4	0.46	5	3
MOUNTING	Through-hole Mount / Adhesive Mount	Magnetic Mount	Through-hole Mount / Adhesive Mount	Magnetic Mount
POLARIZATION	RHCP	RHCP	LHCP	LHCP
PACKAGE SIZE (mm)	25 x 25 x 4	40.5 x 38 x 12.3	25 x 25 x 4	45.2 x 35.8 x 15.1
KEY FEATURES	Low profile, High-gain, Iridium	Iridium, RG-174, SMA(M)	Low profile, High-gain, SDARS	IP67 rated, High-gain LNA, SDARS, SMA(M)



COMBINATION ANTENNAS

Abracon offers combo antenna solutions in diverse types, from compact SMD chip to heavy-duty external antennas with 2-in-1, 3-in-1, 5-in-1, and 6-in-1 protocol support. Our antennas feature IP67 rating for weather resistance to rugged environments.

These high-efficiency antennas integrate 4G/LTE/3G/2G/GSM, GNSS/GPS(L1/L5)/ GLONASS/ BeiDou/Galileo, dual-band Wi-Fi and AM/FM bands for next-generation devices, offering long-range connectivity and easy integration for IoT and machine-to-machine (M2M) applications. High data rates, throughputs, and quality of service (QoS) can be achieved with our MIMO offerings for cellular and Wi-Fi bands.

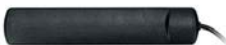


PART NUMBER	ACAR3005-C2WB	ACAG0301-15752450-T	APRA2504F00Z
TYPE	Chip	Chip	Passive Patch
FREQUENCY (MHZ)	824-960 2400-2500	1575 2450	1575 1610-1625
GAIN (DBI)	0.84 2.61	1.21 3.18	3.5 4.5
MOUNTING	Surface Mount	Surface Mount	Through-hole Mount / Adhesive Mount
POLARIZATION	Linear	Linear	RHCP
PACKAGE SIZE (MM)	30 x 5 x 5	3.2 x 1.6 x 1.2	25.1 x 25.1 x 4
KEY FEATURES	Wi-Fi + LPWA/NB-IoT/Sub-GHz Cellular	Wi-Fi + GPS, Compact size	AECQ200, GPS + Iridium

COMBINATION ANTENNAS



PART NUMBER	APARM2504-C2GR	APAKM4012-C2G3D	AFAC120050-U6G
TYPE	Passive Patch	Passive Patch	Flexible PCB
FREQUENCY (MHZ)	1575 1610-1625	1561-1602 2320-2345	698-6000
GAIN (DBI)	2 3	2.7 4	5
MOUNTING	Through-hole Mount / Adhesive Mount	Through-hole Mount / Adhesive Mount	Adhesive Mount
POLARIZATION	RHCP	RHCP LHCP	Linear
PACKAGE SIZE (MM)	25.1 x 25.1 x 4	40 x 40 x 12.2	120 x 50 x 0.2
KEY FEATURES	GPS + Iridium	GNSS + SDARS, High-gain	UWB + 4G/LTE + Dual-band Wi-Fi + GNSS, High-gain, Ø1.37mm, IPEX-1(F)



PART NUMBER	APAMPSLJ-140	APAMSTJ-138	APAMPS-106
TYPE	Blade	Blade	Puck
FREQUENCY (MHZ)	699-960 1710-2690 1559-1606	824-960 1710-2170 2400 380-500	806-960 1710-1880 1575.42
GAIN (DBI)	3	2.2	-1 1 5
MOUNTING	Connector Mount	Adhesive Mount	Screw Mount / Adhesive Mount
POLARIZATION	Linear	Linear	Linear RHCP
PACKAGE SIZE (MM)	196 x 38 x 13.8	126.5 x 22 x 6.7	Ø75 x 14.1
KEY FEATURES	4G/LTE + Wi-Fi + GNSS, SMA(M)	2G/3G/GSM + Wi-Fi + TETRA, RG-174, SMA(M)	2G/3G/GSM + GPS, RF Cable, 2xSMA(M)

COMBINATION ANTENNAS



PART NUMBER	APAMPS-105	AEACBD059015-C3GSW	APAMSJ-147
TYPE	Puck	Puck	Puck
FREQUENCY (MHZ)	806-960 1710-1880 1575.42	824-960 1710-2170 1575.42	824-960 1710-2170 1575.42 1592-1610
GAIN (DBI)	-1 1 5	2 2	1.5 0.5 0.5 0
MOUNTING	Adhesive Mount	Magnetic Mount	Adhesive Mount
POLARIZATION	Linear RHCP	Linear RHCP	Linear RHCP
PACKAGE SIZE (MM)	Ø76.8 x 15.5	59 x 52 x 15	Ø77.0 x 12
KEY FEATURES	2G/3G/GSM + GPS, RF Cable, SMA(M) + FME(F)	2G/3G/GSM + Wi-Fi + GPS, 3xRG-174, 3xSMA(M)	2G/3G/GSM + GNSS, IP67 Rated, 2xRG174U, 2xSMA(M)



PART NUMBER	AEACBA059015-C3GSW	AEACBA081016-C2LG	AEACBD081016-C2LG
TYPE	Puck	Puck	Puck
FREQUENCY (MHZ)	824-960 1710-2170 1575.42 2400-2483.5	698-960 1710-2690 1575.42	698-960 1710-2690 1575.42
GAIN (DBI)	2 2 2 3	2.38 1.96 2	2.38 1.96 2
MOUNTING	Adhesive Mount	Adhesive Mount	Magnetic Mount
POLARIZATION	Linear RHCP	Linear RHCP	Linear RHCP
PACKAGE SIZE (MM)	59 x 52 x 15	Ø81.6 x 16.2	Ø81.6 x 16.2
KEY FEATURES	2G/3G/GSM + Wi-Fi + GPS, 3xRG-174, 3xSMA(M)	4G/LTE + GPS, IP67 Rated, 2xRG174, 2xSMA(M)	4G/LTE + GPS, IP67 Rated, 2xRG-174, 2xSMA(M)

COMBINATION ANTENNAS



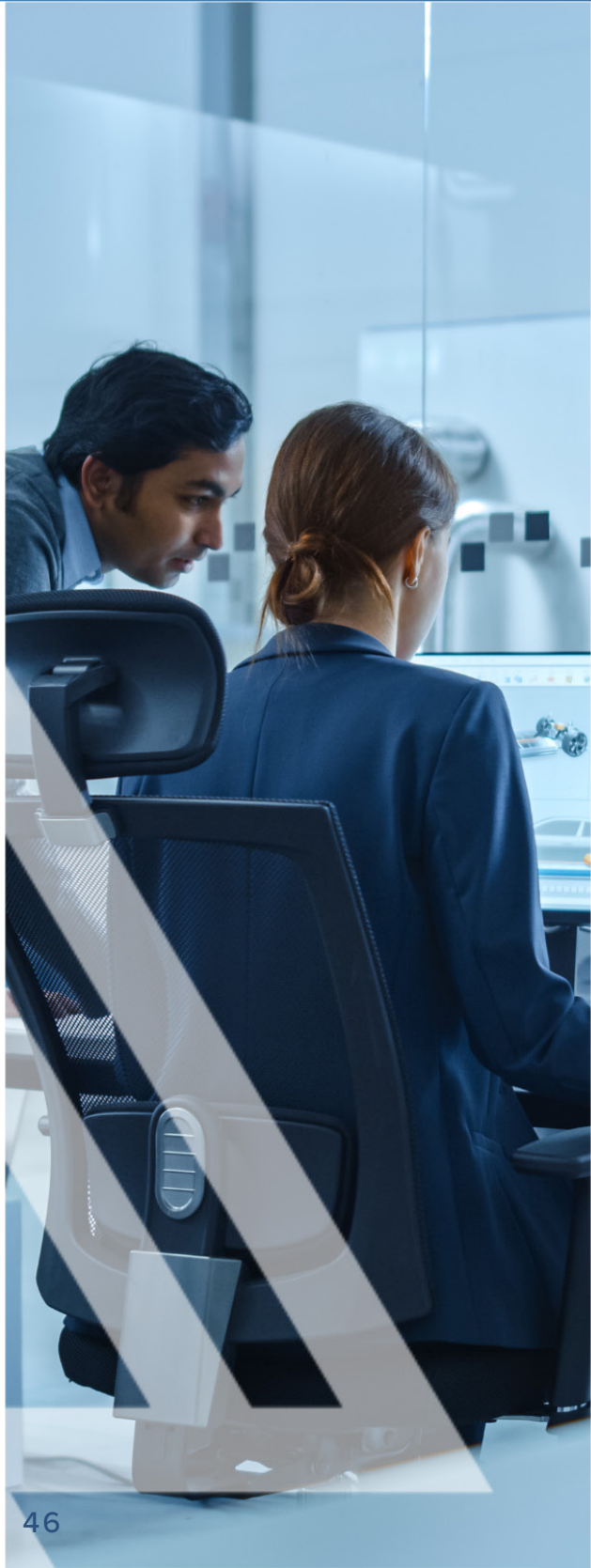
PART NUMBER	AECW0801C03	AECW0801C09	AEACBK046014-C2WG	AEACBK050048-C2LG
TYPE	Puck	Puck	Puck	Dome
FREQUENCY (MHz)	698-960 1710-2690 1561-1602 2400-2483.5 4900-5825	698-960 1710-2690 1561-1602 2400-2483.5 4900-5825	2400-2483.5 4800-5825 1575.42	698-960 1710-2690 1575.42
GAIN (dBi)	2 2 2	2.5 2 3	-4, 2 2 0	2.38 1.96 2
MOUNTING	Screw Mount	Screw Mount	Screw Mount	Screw Mount
POLARIZATION	Linear RHCP	Linear RHCP	Linear RHCP	Linear RHCP
PACKAGE SIZE (mm)	Ø81.3 x 16.3	Ø81.3 x 16.3	Ø46.6 x 14.5	Ø50 x 48
KEY FEATURES	3-in-1, 4G LTE, Wi-Fi, GNSS, IP67, 1xLMR100, 2xRG174, 3xSMA(M)	4-in-1, 2x4GLTE MIMO, Wi-Fi, GNSS, IP67, 1xLMR100, 3xRG174, 4xSMA(M)	GNSS + Dual Wi-Fi, IP67 Rated, 2xRG-178, 2xSMA(M)	4G/LTE + GPS, IP66 Rated, 2xRG174, 2xSMA(M)



PART NUMBER	AEACBK110053-MLWG	AEACBK189085-MLWFGL5	AECR1808A12	AECR1808A20
TYPE	Dome	Dome	Dome	Dome
FREQUENCY (MHz)	698-960 1710-2690 1575.42-1610 2400-2483.5 4900-5825	698-960 1710-2690 2900-3800 1176 1575 2400-2483 4900-5925 0.520-1.629 76-108	600-6000 1561-1606 2400-2483.5 4900-5925	600-6000 1561-1606 2400-2483.5 4900-5925
GAIN (dBi)	2.89 2 1.96 2	4 4 1 8	4 3 4.05 3.17	4 3 3.97 3.37
MOUNTING	Screw Mount	Screw Mount	Screw Mount	Screw Mount
POLARIZATION	Linear RHCP	Linear RHCP	Linear RHCP	Linear RHCP
PACKAGE SIZE (mm)	Ø110 x 53	189 x 182 x 85	189 x 182 x 85	189 x 182 x 85
KEY FEATURES	2x4G/LTE MIMO + 2xWi-Fi MIMO + GNSS, IP67 Rated, 5xRG-174, 5xSMA(M)	2x4G/LTE MIMO + GPS(L1,L5) + Dual Wi-Fi + AM/FM, High-gain, 5xRG-174, 4xSMA(M)+ 1xDIN	5-in-1, 2x5G MIMO, 2xWi-Fi MIMO, GNSS, IP67, 4xLMR100, 1xRG174, 5xSMA(M)	7-in-1, 4x5G MIMO, 2xWi-Fi MIMO, GNSS, IP67 rated, 7xLMR100, 7xSMA(M)

RF & Antenna Services

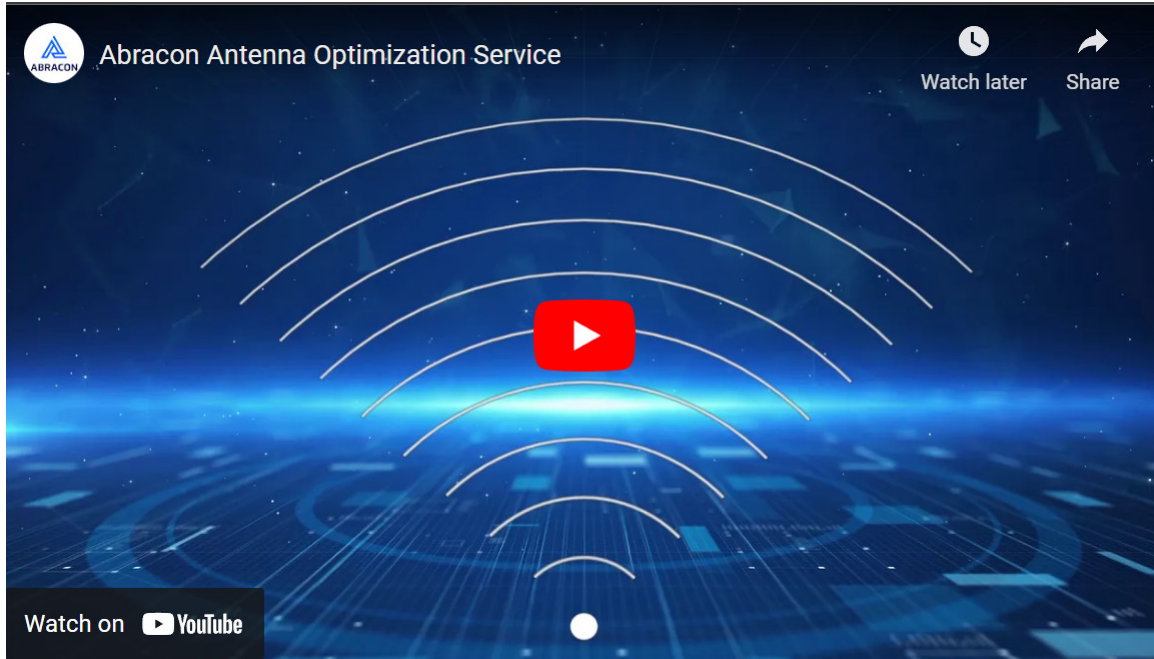
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